

FIG. 2a

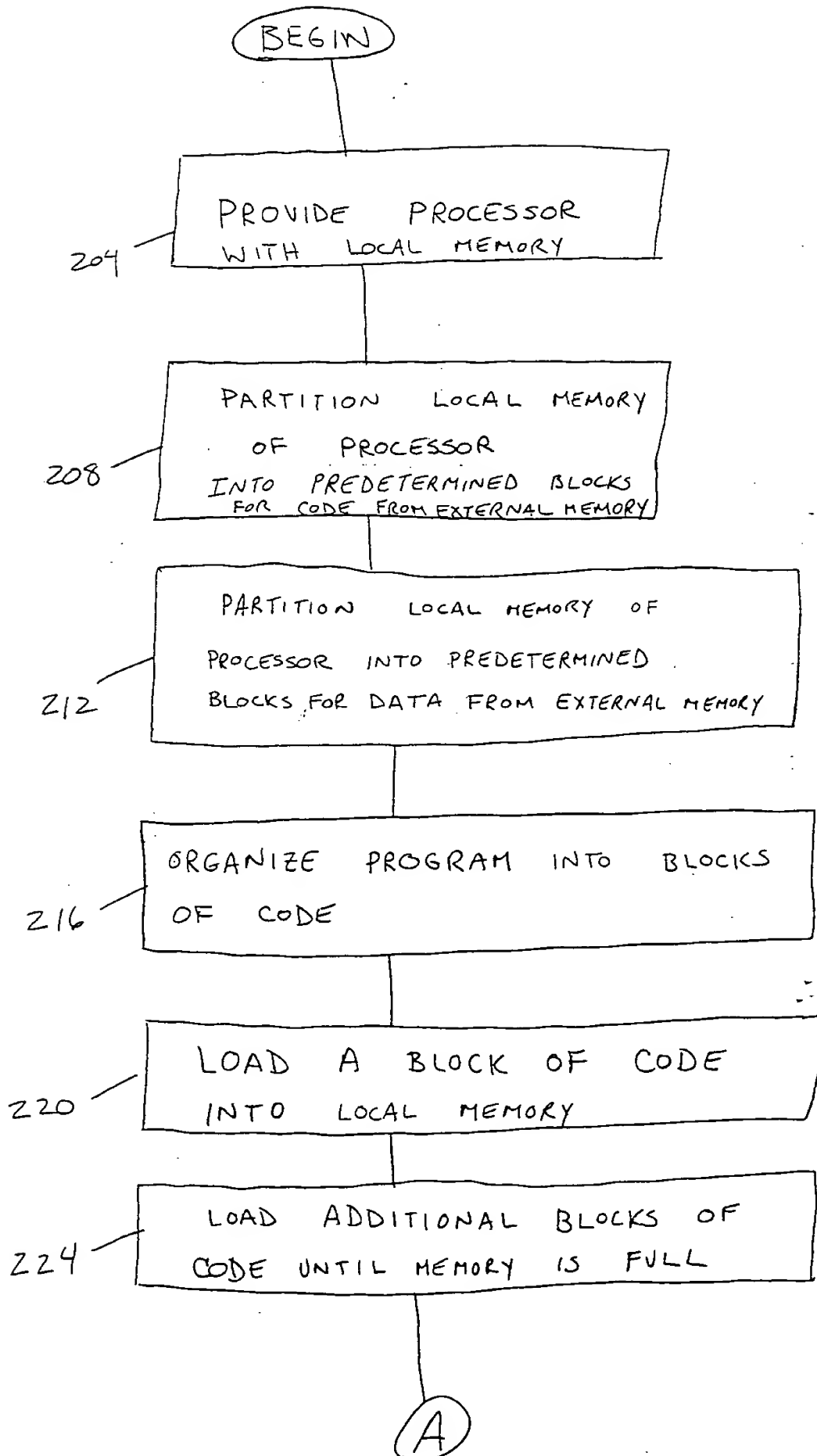
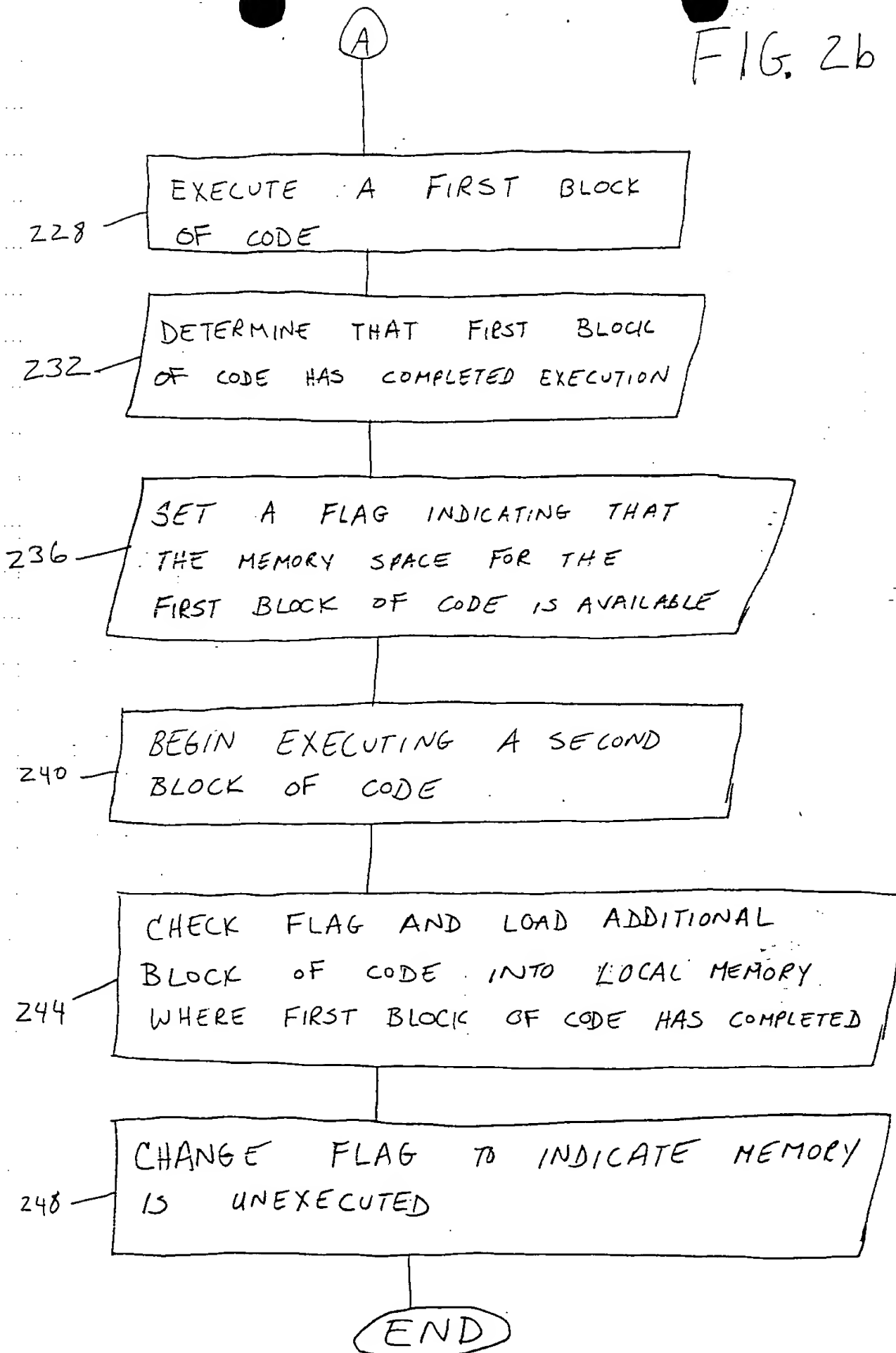


FIG. 2b



BEGIN

FIG. 3a

Provide local memory
coupled to a processor

304

Store a plurality of algorithm
codes in external memory

308

300
DIVIDE LOCAL MEMORY INTO
PREDEFINED MEMORY BLOCKS

312

CONFIGURE A SECTION OF
LOCAL MEMORY TO SERVE AS
FLAGS

316

PUT EACH ALGORITHM M
INTO A QUEUE

320

LOAD FIRST BLOCK OF ALGORITHM CODE INTO
LOCAL MEMORY

324

SET A FLAG CORRESPONDING
WITH THE BLOCK OF MEMORY

328

LOAD ADDITIONAL BLOCKS
OF CODE

332

A

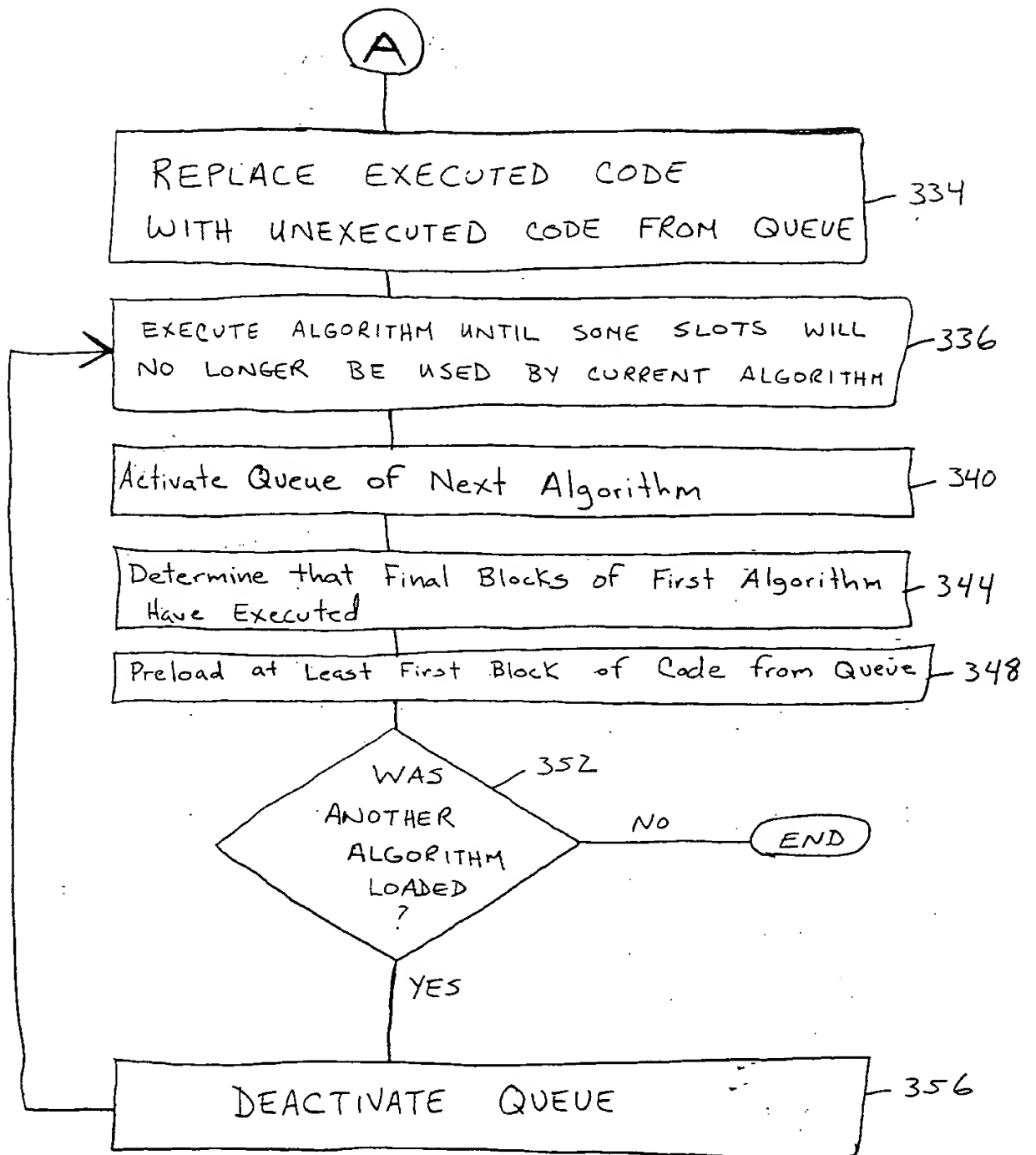


Fig. 3b

PROVIDE A PROCESSOR

404

PROVIDE A LOCAL MEMORY HAVING A PLURALITY OF
MEMORY SEGMENTS WHERE CODE OR DATA CAN BE STORED

408

PROVIDE A STORAGE LOCATION FOR STORING SEMAPHORE
VALUES, EACH SEMAPHORE VALUE ASSOCIATED WITH ONE
OF SAID MEMORY SEGMENTS AND OPERABLE TO INDICATE
WHETHER SAID ASSOCIATED MEMORY SEGMENT CONTAINS
CODE OR DATA THAT IS AVAILABLE FOR USE

412

PROVIDE A FIRST PROGRAM OPERABLE TO ACCESS THE
SEMAPHORE VALUES

416

PROVIDE A SECOND PROGRAM OPERABLE TO ACCESS THE
SEMAPHORE VALUES

420

ACCESS A FIRST SEMAPHORE VALUE WITH SAID FIRST PROGRAM

424

NO

IS THE CODE OR DATA
IN THE MEMORY
SEGMENT THAT IS
ASSOCIATED WITH
THE FIRST
SEMAPHORE VALUE
AVAILABLE FOR USE
?

428

YES

UTILIZE THE FIRST PROGRAM TO IMPLEMENT THE
CODE OR DATA STORED IN THE MEMORY
SEGMENT ASSOCIATED WITH THE FIRST
SEMAPHORE

432

A

Fig. 4a

400

A

ALTER THE FIRST SEMAPHORE VALUE SO AS TO INDICATE THAT THE MEMORY SEGMENT ASSOCIATED WITH THE FIRST SEMAPHORE VALUE IS AVAILABLE FOR HAVING CODE OR DATA STORED IN THE ASSOCIATED MEMORY SEGMENT

436

ACCESS THE FIRST SEMAPHORE VALUE WITH THE SECOND PROGRAM

440

NO

IS THE MEMORY SEGMENT ASSOCIATED WITH THE FIRST SEMAPHORE VALUE AVAILABLE TO HAVE CODE OR DATA STORED THEREIN ?

444

YES

UTILIZE THE SECOND PROGRAM TO STORE CODE OR DATA IN THE MEMORY SEGMENT ASSOCIATED WITH THE FIRST SEMAPHORE VALUE

448

COMPLETE THE STORING OF CODE OR DATA IN THE MEMORY SEGMENT ASSOCIATED WITH THE FIRST SEMAPHORE VALUE

452

B

Fig. 4b

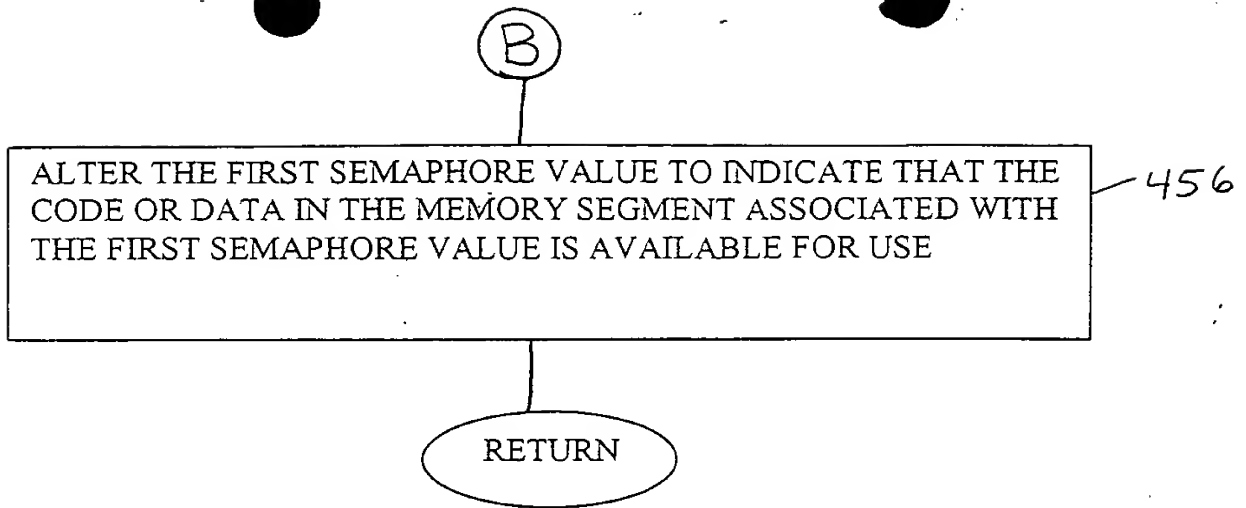


Fig. 4c